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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,575	10/17/2003	Matthew Brown	49480-051	8953
7:	590 04/02/2004	EXAMINER		
McDermott, V	-	LEE, PATRICK J		
600 13th Street	,	ART UNIT	PAPER NUMBER	
Washington, D	C 20005-3096		ARTONI	FAFER NUMBER
			2878	

DATE MAILED: 04/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)		
Office Action Summer.		10/686,575	BROWN, MATTHEW		
	Office Action Summary	Examiner	Art Unit		
		Patrick J. Lee	2878		
Period fo	The MAILING DATE of this communication app r Reply	pears on the cover sheet with the	correspondence address		
THE N - Exten after - If the - If NO - Failui Any n	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period to re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailin- ind patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to by within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed sys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).		
Status			·		
1)[🛛	Responsive to communication(s) filed on 17 C	October 2003.			
•	This action is FINAL . 2b) ☐ This action is non-final.				
3)□	· ·				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims				
5) 6) 7)	Claim(s) <u>1-59</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-59</u> are subject to restriction and/or	wn from consideration.			
Applicati	on Papers				
•	The specification is objected to by the Examine The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by the			
11)□ ·	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correc The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).		
		Naminer. Note the attached Office	C Addition to the Total Control of the Control of t		
12)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea see the attached detailed Office action for a list	ts have been received. ts have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage		
Attachment	(s)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		Patent Application (PTO-152)		

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-15, drawn to a radiant energy transducer system, classified in class 250, subclass 228.
 - II. Claims 16-26, drawn to a luminaire, classified in class 315, subclass 5.24.
 - III. Claims 27-35 & 51-59, drawn to a reflective element, classified in class 250, subclass 216.
 - IV. Claims 36-43, drawn to a method of manufacture of a reflector, classified in class 438, subclass 22.
 - V. Claims 44-50, drawn to a coating material, classified in class 106, subclass 635.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions 1 and 2 are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, invention 1 offers a different use from invention 2 as invention 1 discloses a transducer is used to detect radiant energy, while invention 2 discloses a light source.
- 3. Inventions 1-2 and 3-4 are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for

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patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it is not required for the reflectivity to be greater or equal to 95% and the ability to substantially withstand temperatures up to at least 250°C. The subcombination has a separate utility such as a reflective element utilized for a thermal heat source.

- 4. Inventions 3 and 4 are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, alternative processes besides the shear mixer, such as a horizontal mixer, can make the coating for the substrate.
- 5. Inventions 1-2 and 5 are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it does not require the ratio of the weight of the pigment to the weight of the vehicle binder to be between 1.15:1 and 1.41:1. The subcombination has separate utility such as paint for alternative purposes.
- 6. Inventions 3-4 and 5 are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed

does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the inventions 3-4 does not require the ratio of the weight of the pigment to the weight of the vehicle binder to be between 1.15:1 and 1.41:1, while invention 5 does not require a reflectivity of 95% or greater or a temperature withstanding ability of 250°C. The subcombination has separate utility such as paint for alternative purposes.

7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Lee whose telephone number is (571) 272-2440. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PJL March 25th, 2004

DAVID PORTA
SUPERVICORY PATENT EXAMINER
TECHNOLOGY CENTER 2800